

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P240266

Luminaire Tested: **UTLD-AF24-60-D-U-SL3-FP**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240266
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-27)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-60-D-U-SL3-FP
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5473.8 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U4 - G3

Input Watts (W): 64
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



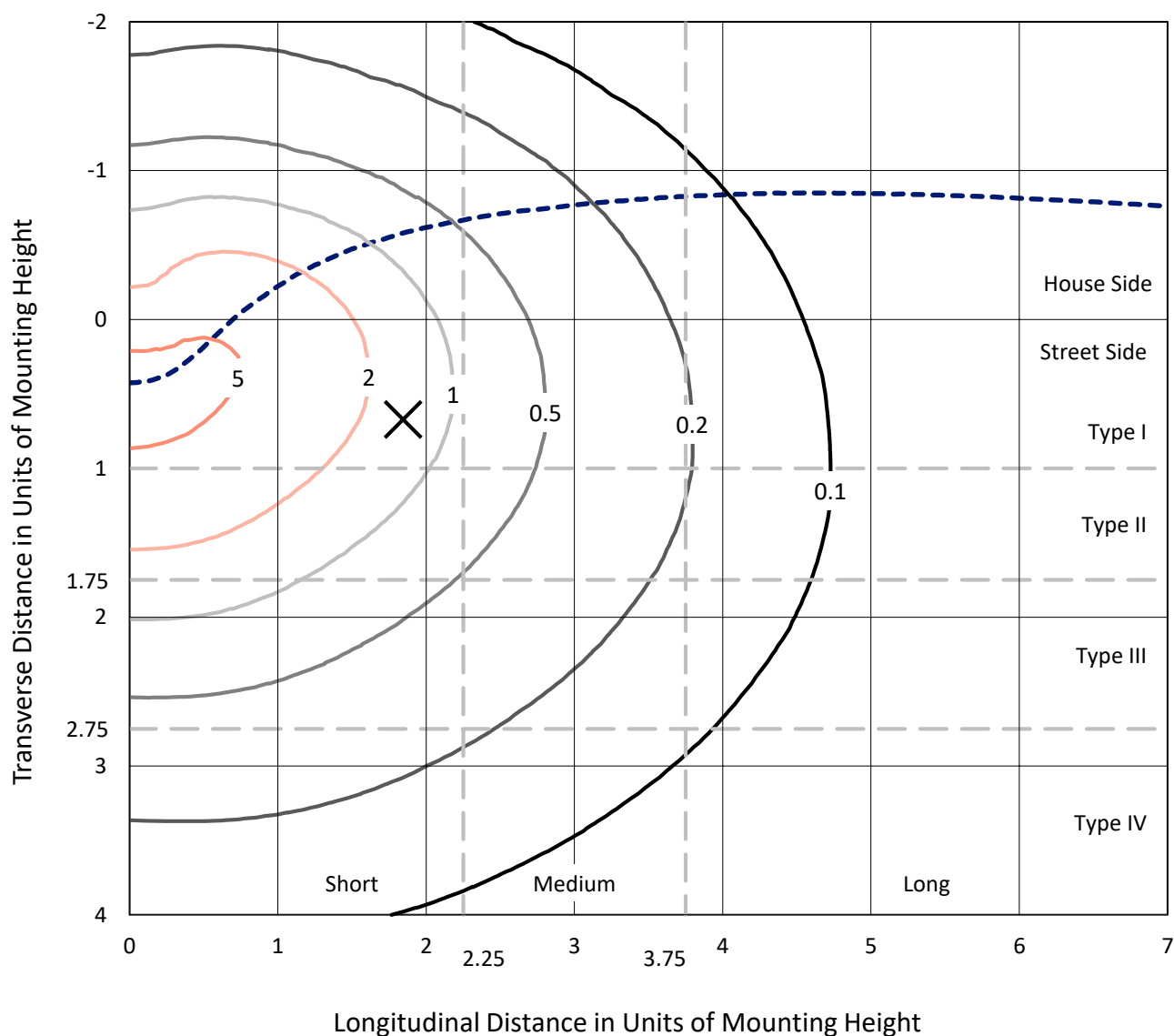
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

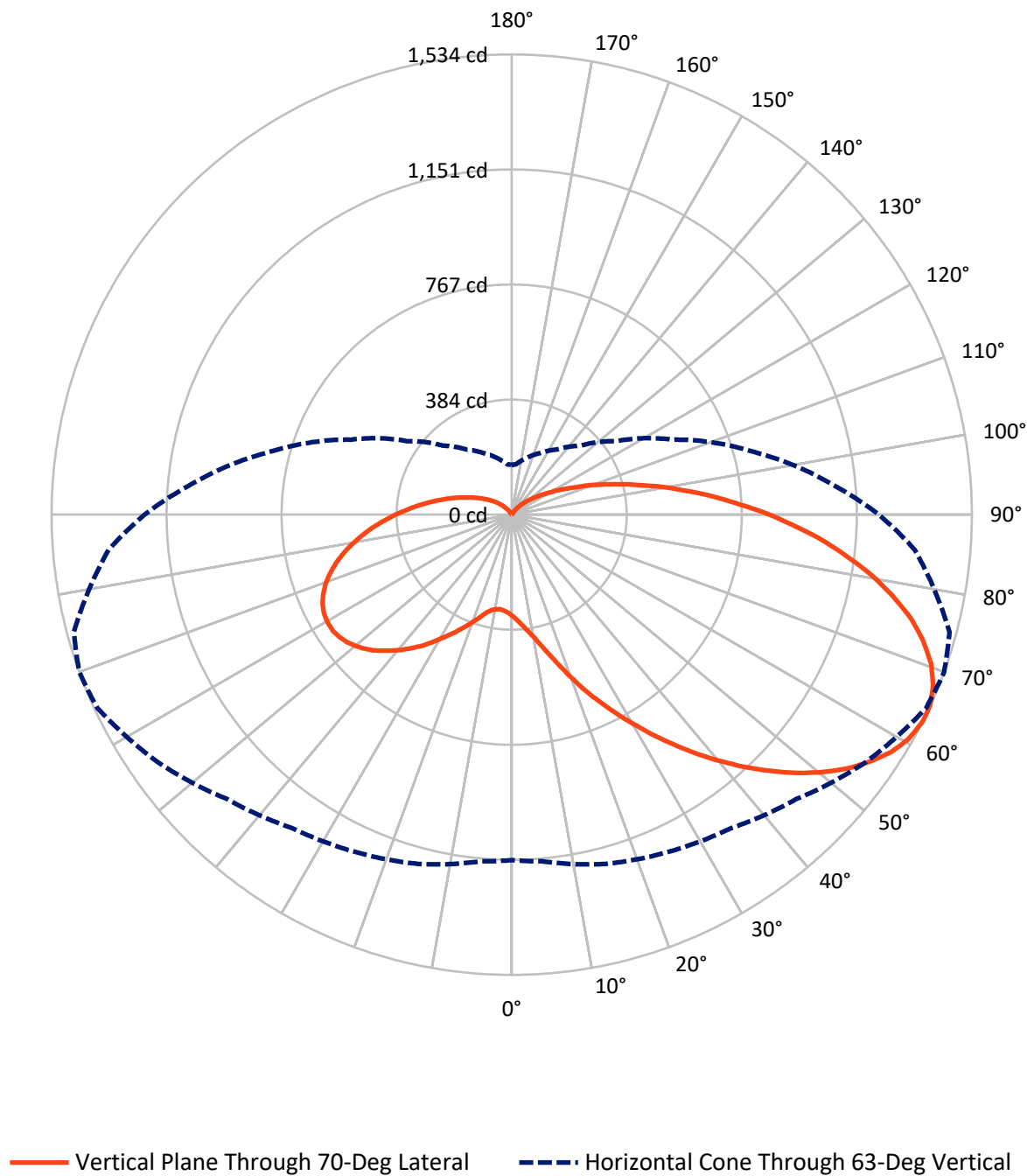


Based on 10 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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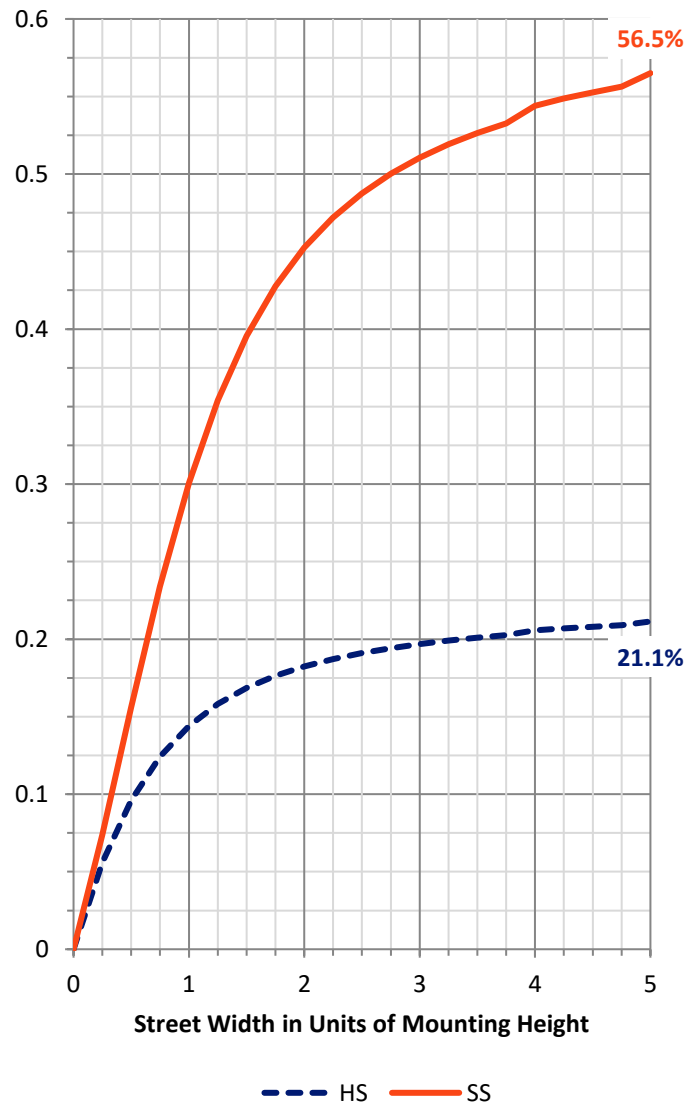
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1229.4	297.5	1526.9
	% Fixture	22.5	5.4	27.9
Street Side	Lumens	3323.2	623.7	3946.9
	% Fixture	60.7	11.4	72.1
Total	Lumens	4552.6	921.2	5473.8
	% Fixture	83.2	16.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.5	0.6
10°-20°	116.9	2.1
20°-30°	248.4	4.5
30°-40°	428.4	7.8
40°-50°	632.0	11.5
50°-60°	804.3	14.7
60°-70°	873.1	15.9
70°-80°	798.4	14.6
80°-90°	617.6	11.3
90°-100°	416.2	7.6
100°-110°	253.2	4.6
110°-120°	141.8	2.6
120°-130°	72.2	1.3
130°-140°	29.9	0.5
140°-150°	7.4	0.1
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4552.6	83.2
0°-180°	5473.8	100.0

Coefficient of Utilization



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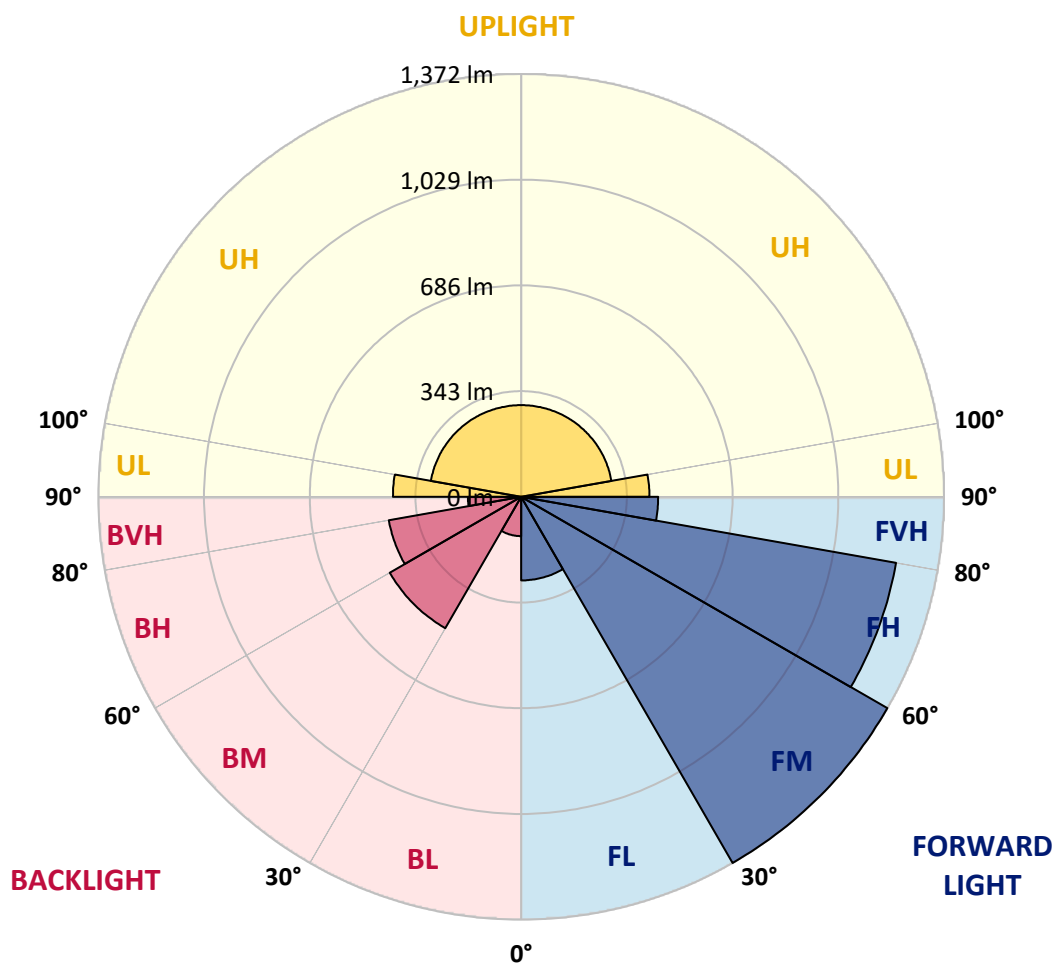
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	271.2	5.0			
FM	(30°-60°)	1372.2	25.1			
FH	(60°-80°)	1235.2	22.6			G1/1800
FVH	(80°-90°)	444.6	8.1			G3/500
BL	(0°-30°)	127.7	2.3	B1/500		
BM	(30°-60°)	492.5	9.0	B1/1000		
BH	(60°-80°)	436.3	8.0	B1/500		G1/500
BVH	(80°-90°)	173.0	3.2			G2/225
UL	(90°-100°)	416.2	7.6		U3/500	
UH	(100°-180°)	297.5	5.4		U3/500	

BUG Rating: B1-U4-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	337.7	337.7	337.7	337.7	337.7	337.7	337.7	337.7	337.7	337.7	337.7
2.5°	376.4	375.7	375.0	371.2	369.8	364.6	360.1	354.9	351.9	348.9	342.9
5°	416.0	414.5	412.2	408.6	401.8	394.3	385.4	375.0	369.8	363.8	351.9
7.5°	454.8	454.0	453.3	445.8	439.2	427.2	414.5	399.6	392.1	382.5	364.6
10°	497.3	498.8	494.3	487.5	476.4	463.7	447.3	427.2	417.5	407.0	383.2
12.5°	545.7	544.9	541.2	530.1	518.1	504.0	483.9	462.2	451.0	436.9	406.3
15°	594.9	592.0	587.5	580.0	565.1	548.7	527.1	502.5	489.8	474.1	439.9
17.5°	646.4	644.2	641.2	628.5	615.8	595.7	577.8	551.0	535.3	518.1	478.6
20°	697.8	696.3	692.5	682.9	667.3	649.4	632.2	603.8	585.9	565.1	520.4
22.5°	752.2	751.5	747.8	736.5	723.9	712.7	691.1	659.0	641.9	616.5	564.4
25°	808.1	808.8	802.2	791.8	782.8	772.3	750.0	716.5	695.6	669.5	610.6
27.5°	868.5	865.5	861.0	851.4	843.9	832.0	808.8	774.6	754.4	726.1	660.5
30°	924.4	925.2	915.5	909.5	904.3	893.1	871.6	836.5	814.1	788.0	712.7
32.5°	984.8	981.8	975.2	969.1	965.5	953.5	933.3	902.9	880.5	847.6	765.7
35°	1037.8	1037.0	1029.6	1031.0	1021.3	1011.7	996.8	968.4	945.3	914.0	824.5
37.5°	1092.2	1090.7	1085.5	1087.0	1075.7	1068.4	1058.7	1034.0	1014.7	982.5	885.7
40°	1143.7	1139.9	1136.2	1138.4	1130.2	1124.9	1119.7	1102.6	1082.5	1048.9	946.0
42.5°	1185.4	1184.6	1182.4	1186.1	1177.9	1176.4	1179.4	1170.5	1152.6	1118.3	1007.2
45°	1221.2	1221.2	1224.2	1226.4	1218.9	1221.2	1236.0	1233.8	1219.7	1185.4	1070.5
47.5°	1249.4	1248.7	1256.2	1259.2	1255.5	1263.7	1288.2	1298.6	1286.8	1254.6	1129.4
50°	1265.9	1265.9	1279.3	1283.0	1283.8	1299.5	1333.7	1356.8	1348.7	1318.1	1185.4
52.5°	1270.4	1271.8	1290.5	1298.6	1301.7	1326.3	1373.2	1408.3	1405.3	1376.2	1236.0
55°	1262.9	1265.2	1289.7	1302.4	1311.3	1345.7	1404.5	1453.7	1451.5	1424.7	1277.8
57.5°	1242.1	1245.0	1276.3	1295.0	1311.3	1356.1	1427.6	1489.5	1492.5	1467.2	1313.6
60°	1209.2	1212.9	1251.0	1275.6	1300.9	1355.3	1439.6	1512.6	1519.4	1493.3	1337.4
62.5°	1163.7	1168.2	1212.2	1246.5	1280.8	1344.9	1440.3	1523.8	1532.8	1509.7	1348.7
63°	1151.8	1160.0	1205.4	1239.8	1275.6	1341.2	1439.6	1524.6	1534.2	1511.2	1349.4
65°	1105.6	1114.5	1166.8	1207.0	1250.3	1324.0	1429.2	1520.8	1532.8	1510.4	1345.7
67.5°	1040.8	1052.6	1107.9	1157.1	1212.2	1293.4	1406.0	1502.2	1515.6	1494.0	1329.2
70°	966.9	983.4	1041.5	1102.6	1163.7	1252.5	1370.2	1470.2	1482.9	1460.5	1296.5
72.5°	892.4	910.2	973.6	1039.2	1107.9	1201.8	1320.3	1421.7	1433.7	1414.2	1251.0
75°	817.1	830.5	896.1	972.1	1046.7	1142.8	1265.2	1359.8	1373.2	1350.1	1194.3
77.5°	737.3	756.0	823.8	900.6	980.4	1082.5	1199.5	1289.0	1297.2	1274.1	1121.3
80°	659.0	680.0	746.2	829.0	913.3	1011.7	1123.5	1210.7	1215.2	1190.6	1043.0
82.5°	590.4	609.8	677.7	757.4	842.4	943.1	1045.3	1119.7	1122.8	1099.7	961.7
85°	524.1	541.2	606.1	688.1	773.9	867.1	964.7	1028.1	1031.7	1004.2	876.0
87.5°	464.4	477.9	540.5	622.5	706.0	797.7	878.9	931.9	932.6	905.8	790.9
90°	413.0	421.3	482.3	562.8	641.9	723.9	799.9	846.2	840.1	811.8	703.0
92.5°	363.0	369.8	425.6	504.0	582.3	656.0	722.4	752.2	745.5	720.9	624.7
95°	322.8	325.8	377.3	451.0	521.1	591.2	647.8	669.5	662.8	636.7	547.2
97.5°	281.8	286.3	333.3	400.4	468.2	531.5	577.8	592.0	579.3	553.9	479.4
100°	251.2	252.8	292.3	356.4	420.4	475.7	512.2	521.1	507.7	484.6	417.5
102.5°	222.9	222.2	258.0	317.6	375.0	421.3	452.6	451.7	437.6	417.5	362.3
105°	198.4	197.5	225.2	280.3	331.7	372.8	395.9	392.9	378.7	359.4	315.4
107.5°	175.2	176.7	196.8	245.3	291.5	328.1	345.1	338.5	325.8	307.9	273.6



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CATALOG NUMBER: UTLD-AF24-60-D-U-SL3-FP

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	158.0	158.0	173.7	215.4	258.0	287.8	301.2	291.5	279.6	261.7	236.3
112.5°	142.4	142.4	153.5	187.9	226.7	253.5	262.4	249.7	235.6	223.6	205.0
115°	128.3	128.3	135.6	163.3	197.5	219.9	225.2	211.8	199.8	190.9	178.9
117.5°	116.3	116.3	120.8	140.1	170.7	191.6	194.6	179.6	171.4	162.5	155.8
120°	105.2	105.9	107.3	120.0	145.4	163.3	164.8	150.6	143.9	139.4	135.6
122.5°	95.4	95.4	96.2	103.6	123.8	138.7	138.7	126.7	122.2	120.8	117.7
125°	86.4	86.4	86.4	89.5	102.9	114.8	113.3	105.9	103.6	103.6	102.1
127.5°	78.3	77.5	76.8	77.5	84.3	92.5	92.5	87.3	87.3	88.0	88.7
130°	70.1	69.4	67.8	66.4	67.1	73.0	72.3	70.8	72.3	74.6	76.0
132.5°	61.9	61.9	59.6	56.0	53.7	55.1	56.0	56.7	58.9	61.9	64.1
135°	53.7	53.7	51.5	46.2	41.7	41.0	40.3	44.0	47.7	50.7	52.9
137.5°	45.5	45.5	43.3	37.2	31.3	28.3	27.6	33.6	37.2	40.3	42.5
140°	38.1	37.2	35.1	29.1	22.4	17.9	17.9	23.8	27.6	30.6	33.6
142.5°	29.9	29.9	27.6	22.4	14.9	10.4	11.2	16.4	19.3	21.6	23.8
145°	22.4	22.4	20.2	14.9	8.9	5.2	5.9	10.4	12.7	14.9	17.2
147.5°	15.7	15.7	13.4	9.7	4.5	1.5	3.0	5.9	7.5	8.9	10.4
150°	9.7	9.7	8.2	5.2	2.3	0.0	0.7	3.0	3.7	4.5	5.9
152.5°	5.2	5.2	3.7	2.3	0.7	0.0	0.0	0.7	1.5	2.3	3.0
155°	2.3	2.3	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.7	0.7
157.5°	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	337.7	337.7	337.7	337.7	337.7	337.7	337.7	337.7	337.7	337.7	337.7
2.5°	339.9	337.0	330.3	324.3	319.1	313.8	309.3	305.7	304.9	302.7	303.4
5°	345.1	339.2	326.5	315.4	303.4	293.7	286.3	279.6	274.4	272.1	271.4
7.5°	355.6	346.0	326.5	308.6	292.3	277.3	264.6	254.9	249.0	245.3	246.0
10°	370.5	357.8	331.7	307.2	284.1	263.9	247.6	235.6	226.7	222.9	222.9
12.5°	389.9	375.0	341.5	309.3	280.3	254.9	234.1	219.2	210.9	205.7	205.7
15°	421.3	399.6	357.8	316.8	280.3	249.7	226.7	210.2	202.7	199.1	198.4
17.5°	454.8	430.9	380.9	331.7	287.0	249.0	225.9	211.8	202.7	198.4	198.4
20°	491.3	463.0	405.6	348.9	298.2	258.0	231.9	214.7	203.6	197.5	196.8
22.5°	530.8	499.5	431.7	366.8	311.6	272.8	239.3	217.0	203.6	197.5	196.8
25°	574.8	536.7	458.5	386.9	329.5	286.3	248.3	219.9	203.6	196.1	195.3
27.5°	619.5	577.0	488.4	406.3	348.1	298.9	256.5	222.2	203.6	195.3	194.6
30°	668.0	617.2	517.4	428.7	365.3	310.2	263.2	224.4	203.6	194.6	193.8
32.5°	715.7	661.2	548.7	454.0	381.7	319.1	269.1	228.8	204.3	193.8	192.3
35°	768.6	708.2	582.3	479.4	396.6	327.2	274.4	231.9	203.6	192.3	191.6
37.5°	823.8	754.4	612.8	501.8	408.6	333.3	277.3	234.1	203.6	191.6	190.1
40°	878.9	801.4	645.6	524.1	419.7	338.5	280.3	236.3	202.7	190.1	188.6
42.5°	932.6	847.6	677.7	542.8	428.7	342.2	281.8	237.8	202.7	188.6	187.1
45°	987.8	894.6	711.3	560.6	435.4	343.7	281.8	237.8	203.6	187.1	185.7
47.5°	1040.8	938.6	741.7	574.8	440.6	344.4	281.8	237.8	203.6	185.7	183.4
50°	1087.7	978.9	767.1	586.8	443.6	344.4	281.1	237.8	203.6	183.4	181.2
52.5°	1133.2	1013.8	790.9	594.9	445.1	342.9	279.6	236.3	203.6	181.2	178.9
55°	1169.7	1045.3	807.4	600.2	443.6	340.7	276.6	234.9	202.7	178.9	175.9
57.5°	1198.8	1067.6	820.1	601.6	440.6	337.0	273.6	232.6	201.3	175.9	173.7
60°	1217.4	1080.2	823.8	598.6	436.1	331.7	269.9	230.4	199.1	173.0	170.0
62.5°	1224.2	1084.7	822.4	592.7	429.4	326.5	266.2	227.4	196.8	169.2	166.2
63°	1224.2	1084.0	821.5	591.2	427.2	325.1	265.4	226.7	196.1	168.5	165.5
65°	1219.7	1078.0	814.1	582.3	420.4	319.8	261.7	223.6	194.6	166.2	162.5
67.5°	1201.0	1062.3	797.0	568.9	409.3	312.4	255.7	219.2	190.9	162.5	158.8
70°	1171.2	1035.5	773.9	551.0	397.3	304.1	249.7	214.7	187.1	158.8	154.4
72.5°	1127.2	998.2	744.8	530.1	383.2	295.2	243.1	209.5	181.9	154.4	149.1
75°	1072.8	952.8	710.4	506.2	369.0	284.8	236.3	203.6	176.7	149.9	143.1
77.5°	1008.6	899.8	671.0	481.6	352.6	274.4	228.1	196.8	171.4	145.4	137.2
80°	937.1	837.2	628.5	454.0	335.5	263.2	219.9	190.1	164.0	139.4	131.2
82.5°	865.5	774.6	583.7	425.6	318.3	252.0	210.9	182.7	157.3	133.5	125.2
85°	788.0	709.0	539.7	396.6	300.4	239.3	202.0	174.4	150.6	127.5	118.6
87.5°	713.4	642.6	491.3	368.3	283.3	228.1	193.1	166.2	142.4	120.0	113.3
90°	641.2	579.3	449.6	339.2	264.6	215.4	183.4	157.3	134.2	112.5	107.3
92.5°	571.1	515.2	404.1	312.4	247.6	203.6	173.0	148.3	126.0	105.9	101.4
95°	505.4	459.2	366.0	285.5	231.1	191.6	163.3	140.1	117.0	97.7	94.7
97.5°	443.6	406.3	328.8	262.4	213.2	179.6	152.8	130.4	108.1	90.2	88.7
100°	391.4	359.4	293.7	238.6	197.5	167.8	143.1	120.8	99.1	82.8	82.8
102.5°	342.2	313.8	261.0	216.1	181.9	155.1	132.0	111.1	90.2	76.0	76.0
105°	298.9	275.9	233.3	196.1	166.9	143.1	121.5	101.4	80.5	69.4	69.4
107.5°	259.4	241.5	207.2	177.5	152.1	130.4	111.1	90.9	70.8	62.6	63.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	227.4	213.2	184.1	158.8	137.9	120.0	101.4	81.2	61.9	56.7	56.7
112.5°	196.8	185.7	162.5	143.1	125.2	108.8	90.9	71.6	54.4	51.5	51.5
115°	172.2	163.3	143.9	127.5	112.5	97.7	80.5	61.9	47.0	45.5	46.2
117.5°	150.6	143.1	128.3	114.8	101.4	87.3	71.6	52.9	41.0	41.0	41.0
120°	131.2	126.0	112.5	101.4	90.2	76.8	61.9	44.7	35.8	35.8	36.5
122.5°	115.6	110.4	100.7	89.5	79.1	67.1	52.9	37.2	31.3	32.0	32.8
125°	99.9	96.9	88.0	78.3	68.5	56.7	44.0	30.6	27.6	28.3	29.1
127.5°	87.3	85.0	76.0	67.8	58.9	47.7	35.8	24.6	23.1	24.6	25.4
130°	74.6	73.0	66.4	58.1	49.2	39.5	28.3	20.2	20.2	21.6	21.6
132.5°	63.3	61.9	56.0	47.7	40.3	30.6	21.6	16.4	17.2	18.6	18.6
135°	52.9	51.5	46.2	39.5	31.3	23.1	16.4	13.4	14.9	15.7	15.7
137.5°	43.3	41.7	37.2	30.6	23.1	16.4	12.0	10.4	12.0	13.4	13.4
140°	32.8	32.8	29.1	23.1	16.4	11.2	8.2	8.2	9.7	10.4	10.4
142.5°	24.6	23.8	21.6	16.4	10.4	6.8	5.2	5.9	7.5	8.2	8.2
145°	17.2	16.4	14.9	11.2	5.9	3.7	3.0	4.5	5.2	5.9	5.9
147.5°	11.2	10.4	9.7	6.8	3.0	1.5	1.5	3.0	3.7	4.5	4.5
150°	5.9	5.9	5.2	3.0	1.5	0.0	0.7	1.5	2.3	2.3	2.3
152.5°	3.0	3.0	2.3	1.5	0.7	0.0	0.0	0.0	0.7	0.7	0.7
155°	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)